



10TH SSC MCQ - CH - CO-ORDINATE GEOMETRY

DATE: _____

TIME: 18 Min

MARKS: 18

SEAT NO:

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Note:-

1. All Questions are compulsory.
2. Numbers on the right indicate full marks.

Q.1 If the points $(k, 2k)$, $(3k, 3k)$ and $(3, 1)$ are collinear then what is the value of k . (1)

- A) $\frac{-1}{3}$ B) $\frac{1}{3}$
C) -3 D) 3

Ans : A

Q.2 Slope of line parallel to y-axis is _____. (1)

- A) not determind B) 1
C) 0 D) 2

Ans : A

Q.3 Slope of x-axis is _____. (1)

- A) 1 B) 2
C) 0 D) not determind

Ans : C

Q.4 The slope of line passing through $A(2, 3)$, $B(4, 7)$ is _____. (1)

- A) 1 B) $\frac{5}{2}$
C) -4 D) 2

Ans : D

Q.5 If slope of line joining the point $(2, k)$ and $(-3, 0)$ is $\frac{2}{5}$ then what is the value of k . (1)

- A) 2 B) -2
C) -5 D) 5

Ans : A

Q.6 What are the values of m and n if $D(m, -2)$ is the midpoint of the segment joining $(-3, n)$ and $(2, -5)$. (1)

- A) $m = 1, n = \frac{-1}{2}$ B) $m = -1, n = \frac{1}{2}$
C) $m = \frac{-1}{2}, n = 1$ D) $m = \frac{-1}{2}, n = -1$

Ans : C

Q.7 The point of concurrence (centroid) divides the median in the ratio is _____. (1)

- A) 1:2 B) 2:1
C) 2:3 D) 4:2

Ans : B

Q.8 Angle 6 made by the line with positive direction of X-axis is 45° then the slope of line is (1)

- _____
- A) 1 B) 2
C) $\frac{1}{2}$ D) $\frac{1}{\sqrt{2}}$

Ans : A

Q.9 P divides segment QR internally in the ratio 2:1. Q = (-5, 8), R = (4, -4) then (1)

P = _____

- A) (0, 1) B) (0, -1)
C) (1, 0) D) (-1, 0)

Ans : C

Q.10 (3, 3), (-4, 1) and (3, -5) are the vertices of an _____. (1)

- A) Right angle triangle B) Isosceles triangle
C) Equilateral triangle D) Scalene triangle

Ans : B

Q.11 The co-ordinate of the mid-point of the line segment joining the points P(4,-6) and Q(-2,4) is _____. (1)

- A) (-1,1) B) (1,-1)
C) (3,5) D) (-3,-5)

Ans : B

Q.12 The ratio in which the point (5,4) divides the line joining points(2,1) and (7,6) is _____. (1)

- A) 3:2 B) 2:3
C) 1:3 D) 2:3

Ans : A

Q.13 A(4,8), B(5,5), C(2,4) and D(1,7) are the vertices of a parallelogram then the co-ordinates of the point of intersection of the diagonals of the parallelogram ABCD is _____. (1)

- A) (6,12) B) (12,6)
C) (3,6) D) (6,3)

Ans : C

Q.14 Distance of point (-3, 4) from the origin is _____. (1)

- A) 7 B) 1
C) 5 D) -5

Ans : C

Q.15 Out of the following point _____ lies to the right of the origin on X-axis. (1)

- A) (-2, 0) B) (0, 2)
C) (2, 3) D) (2, 0)

Ans : D

Q.16 Seg AB is parallel to Y-axis and co-ordinates of Point A are (1,3) then co-ordinates of point B can be _____. (1)

- A) (3, 1) B) (5, 3)
C) (3, 0) D) (1, -3)

Ans : D

Q.17 P(1,2) is the midpoint of seg AB. If B(4,3) , what are the co-ordinates of the point A? **(1)**

- A) (6,1) B) (1,6)
C) (-1,6) D) (-6,1)

Ans : D

Q.18 What is the distance between the points A(4,5) and B(2,5) ? **(1)**

- A) 4 B) 2
C) 16 D) $\sqrt{102}$

Ans : B